

CLAIM(S)

I claim:

(0031) 1. A breakaway support for overhead lines that provides a structurally coordinated support assembly for overhead lines that does not require the supported line to break continuity. The breakaway support for overhead lines comprises:

a method of securing the assembly to the supporting structure;

a weak link designed to release when subjected to unintended external forces that exceed design parameters;

a rollout stabilizing assembly that limits the effect on the weak link of the moment produced by non-axial loads and protects the weak link from being abraded by the supporting structure; and

a line interface attachment point that helps attenuate the lateral movement of the overhead line..

(0032) 2. The breakaway support for overhead lines, in claim 1 wherein the weak link is a stranded, corrosion resistant link with a lower tensile strength than the other components of the breakaway support for overhead lines.

(0033) 3. The breakaway support for overhead lines, in claim 1 wherein a nipple on the stabilizing assembly prevents abrasion of the weak link by the supporting structure and limits lateral movement of the stabilizing assembly (Many cycles of sever lateral movement could result in premature fatigue failure).

(0034) 4. The breakaway support for overhead lines, in claim 1, wherein the depth and/or diameter of the nipple on the rollout stabilizing assembly will not impede the breakaway feature of the assembly (The nipple won't be so long nor so large as to bind

when the breakaway link (weak link) fails. The nipple length and diameter vary with the design criteria.).

(0035) 5. The breakaway support for overhead lines, in claim 1 wherein the rollout stabilizing assembly will provide a large enough footprint (rigidity and size) such that the stresses created in the weak link by a transverse load (wind load, vehicle hitting conductor, etc.) on the conductor do not cause premature failure of the weak link.